

FILEID**SMGTPALIB

SSSSSSSS	MM	MM	GGGGGGGG	TTTTTTTT	PPPPPPP	AAAAAA	LL	IIIIII	BBBBBBBB
SSSSSSSS	MM	MM	GGGGGGGG	TTTTTTTT	PPPPPPP	AAAAAA	LL	IIIIII	BBBBBBBB
SS	MMMM	MMMM	GG	TT	PP	AA	AA	II	BB
SS	MMMM	MMMM	GG	TT	PP	AA	AA	II	BB
SS	MM	MM	GG	TT	PP	AA	AA	II	BB
SS	MM	MM	GG	TT	PP	AA	AA	II	BB
SSSSSS	MM	MM	GG	TT	PPPPPPP	AA	AA	II	BBBBBBBB
SSSSSS	MM	MM	GG	TT	PPPPPPP	AA	AA	II	BBBBBBBB
SS	MM	MM	GG	GGGGGG	TT	PP	AAAAAAAAA	II	BB
SS	MM	MM	GG	GGGGGG	TT	PP	AAAAAAAAA	II	BB
SS	MM	MM	GG	GG	TT	PP	AA	II	BB
SS	MM	MM	GG	GG	TT	PP	AA	II	BB
SSSSSSSS	MM	MM	GGGGGG	TT	PP	AA	AA	LLLLLLLL	BBBBBBBB
SSSSSSSS	MM	MM	GGGGGG	TT	PP	AA	AA	IIIIII	BBBBBBBB

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLL	IIIIII	SSSSSSSS

```
0001 0 XTITLE 'SMGTPALIB - SMGS TPARSE require files'
0002 0 Run-Time Library Screen Management Bliss Definition Library
0003 0 Module: SMGTPALIB.REQ Edit: PLL1001
0004 0
0005 0 ****
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0024 0 *
0025 0 *
0026 0 ****
0027 0
0028 0
0029 0 ++
0030 0 FACILITY: Screen Management
0031 0
0032 0 ABSTRACT:
0033 0
0034 0 This file contains require files used in the creation of TERMTABLE.EXE.
0035 0
0036 0 MODIFIED BY:
0037 0
0038 0 1-001 - Original. PLL 30-JAN-1984
0039 0 !--
0040 0
0041 0 LIBRARY 'RTLSTARLE'; ! Starlet definitions
0042 0 REQUIRE 'RTLIN:SMGTABDEF'; ! Terminal Table Definitions
0043 0
```

R0044 0 | Terminal Table Data Structure Definitions for RTL SMGS facility
R0045 0 | File: SMGTABDEF.REQ Edit: PLL1001
R0046 0 |
R0047 0 |
R0048 0 |*****
R0049 0 |*
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R0067 0 |*
R0068 0 |*
R0069 0 |******
R0070 0 |*
R0071 0 |*
R0072 0 |*++
R0073 0 |* FACILITY: Screen Management
R0074 0 |*
R0075 0 |* ABSTRACT:
R0076 0 |*
R0077 0 |* This module defines the internal structure of the binary
R0078 0 |* TERMTABLE.EXE.
R0079 0 |*
R0080 0 |*
R0081 0 |*
R0082 0 |* MODIFIED BY:
R0083 0 |*
R0084 0 |* 1-001 - Original. PLL 2-Nov-1983
R0085 0 |*--
R0086 0 |*
R0087 0 |*
R0088 0 |* The internal structure of TERMTABLE.EXE is divided into several sections.
R0089 0 |*
R0090 0 |* Each terminal definition consists of 660 capability pointers and
R0091 0 |* a data area. If a terminal does not have a particular capability defined,
R0092 0 |* the pointer for that capability will be zero. Otherwise, the capability
R0093 0 |* pointer is an offset into the data area.
R0094 0 |*
R0095 0 |* Each capability data consists of a count and the data. The data may be
R0096 0 |* a binary number or an ascii string. A negative count indicates that
R0097 0 |* this is a dynamic string which requires processing (substitution, conversion,
R0098 0 |* or arithmetic).
R0099 0 |*
R0100 0 |* TERMTABLE.EXE also contains an index so that individual terminal definitions

R0101 0 | can be located. The index will consist of a count, the ascii name for the
 R0102 0 terminal, and the block number where the terminal definition begins. The
 R0103 0 index will actually be located at the end of TERMTABLE.EXE. This is because
 R0104 0 the number of terminal definitions is unpredictable, and we don't want to
 R0105 0 impose an arbitrary size constraint that would restrict the number of
 R0106 0 terminals defined.
 R0107 0
 R0108 0 TERMTABLE.EXE will begin with an ident number, to allow for future changes.
 R0109 0 These future changes would probably allow more terminal capabilities (greater
 R0110 0 than 660).
 R0111 0
 R0112 0
 R0113 0 +-----+
 R0114 0 | unused : Ident |
 R0115 0 +-----+
 R0116 0 +-----+
 R0117 0 | Index Pointer |
 R0118 0 +-----+
 R0119 0 v | cap1 ptr : def id | <- Start of Terminal Definitions
 R0120 0 +-----+
 R0121 0 | cap3 ptr : cap2 ptr |
 R0122 0 +-----+
 R0123 0 | etc. |
 R0124 0 +-----+
 R0125 0 | 660 ptr : 659 ptr |
 R0126 0 +-----+
 R0127 0 | capability |
 R0128 0 | data |
 R0129 0 +-----+
 R0130 0 | 2nd TERM DEF |
 R0131 0 +-----+
 R0132 0 | 660 cap ptrs |
 R0133 0 +-----+
 R0134 0 | cap data |
 R0135 0 +-----+
 R0136 0 | . |
 R0137 0 +-----+
 R0138 0 | . |
 R0139 0 +-----+
 R0140 0 | Nth TERM DEF |
 R0141 0 +-----+
 R0142 0 | 660 cap ptrs |
 R0143 0 +-----+
 R0144 0 | cap data |
 R0145 0 +-----+
 R0146 0 | Term name : count |
 R0147 0 +-----+
 R0148 0 | : count2 : Block# | --> INDEX into terminal definitions
 R0149 0 +-----+
 R0150 0 | Block2 #: Name 2 |
 R0151 0 +-----+
 R0152 0 | . |
 R0153 0 +-----+
 R0154 0 | . |
 R0155 0 +-----+
 R0156 0 | Name N : count |
 R0157 0 +-----+ | : 0 : BlockN# | count = 0 --> end of terminal def ptrs

```

R0158 0 !
R0159 0
R0160 0
R0161 0 !+ Offsets used to access a terminal table.
R0162 0 !-
R0163 0
R0164 0
R0165 0 MACRO
R0166 0   TTB_W_IDENT      = 0, 0, 16, 0%, ! ident field (to allow for
R0167 0           future changes)
R0168 0   TTB_W_unused     = 2, 0, 16, 0%, ! not used
R0169 0   TTB_L_INDEX_OFFSET = 4, 0, 32, 0%; ! offset from here to terminal
R0170 0           index
R0171 0
R0172 0
R0173 0 !+ Define constants needed to build terminal table
R0174 0 !-
R0175 0
R0176 0 LITERAL
R0177 0   SMGSK_HEADER_SIZE    = 512,          ! 1 block for header info
R0178 0   SMGSK_TERM_INDEX_SIZE = 5000,        ! arbitrary size for index
R0179 0   SMGSK_CAP_PTRS_SIZE   = 1536,        ! 3 blocks to hold ptrs
R0180 0   SMGSK_CAP_DATA_SIZE   = 5120,        ! 10 blocks to hold data
R0181 0   SMGSK_TERM_DEF_SIZE  = 6656,        ! ptrs + data (3+10 blocks)
R0182 0   SMGSK_TERM_DEF_ID    = 137,          ! random number to identify
R0183 0           a valid terminal def
R0184 0   SMGSK_TERM_DEF_ID_OFFSET = 0,         ! location of id - 1st
R0185 0           word in ptr vector
R0186 0   SMGSK_MIN_REQUEST_CODE = 1,           ! lowest capability number
R0187 0   SMGSK_MAX_REQUEST_CODE = 660;         ! highest capability number
R0188 0
R0189 0
R0190 0 !+ The following are used when parsing arithmetic expressions.
R0191 0   Information about expressions is stored via these encodings.
R0192 0 !-
R0193 0 LITERAL
R0194 0   SMGSK_FAO_STRING      = XX'FFFFFFF';
R0195 0   SMGSK_ARITH_STRING    = XX'FFFFFE';
R0196 0   SMGSK_OPERAND         = XX'FFFFFD';
R0197 0   SMGSK_SUBSTITUTE       = XX'FFFFFC';
R0198 0   SMGSK_ADD              = XX'FFFFFB';
R0199 0   SMGSK_SUBTRACT        = XX'FFFFFA';
R0200 0   SMGSK_MULTIPLY        = XX'FFFFF9';
R0201 0   SMGSK_DIVIDE          = XX'FFFFF8';
R0202 0   SMGSK_STORE            = XX'FFFFF7';

```

SMGTPALIB - SMGS TPARSE require files

G 16

15-Sep-1984 23:28:41
15-Sep-1984 22:51:35

VAX-11 Bliss-32 V4.0-742
[SMGRTL.SRC]SMGTPALIB.REQ;1

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: 0203 0

REQUIRE 'RTLIN:SMGTPACTL';

! TPARSE parameter block defs

R0205 0 | SMGTPACTL.REQ - SMG TPARSE Control Block Defs
R0206 0 | Version 1-002 - Edit: PLL1001
R0207 0
R0208 0
R0209 0 *****
R0210 0 *
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R0228 0 *
R0229 0 *
R0230 0 *****
R0231 0 !
R0232 0
R0233 0 ! AUTHOR: P. Levesque
R0234 0
R0235 0 ! EDIT HISTORY:
R0236 0 ! 1-001 - Original. PLL 28-Nov-1983
R0237 0
R0238 0
R0239 0 LITERAL
R0240 0 SMGSK_PARAM_BLOCK_SIZE = TPASK_LENGTH0 + 60; ! TPARSE parameter block length
R0241 0
R0242 0
R0243 0 +
R0244 0 Two parameter blocks are actually allocated together and are adjacent.
R0245 0 The first is the TPARSE parameter block, and the second is a private
R0246 0 parameter block needed to pass info between the routines in SMGBLDTRM.B32.
R0247 0 The TPARSE action routines in SMGTPATAB.B32 also need these variables.
R0248 0
R0249 0 TPARSE symbols (TPAS_xxx) are defined in RTLTPAMAC.REQ. Only private
R0250 0 symbols are defined here.
R0251 0 !-
R0252 0
R0253 0 MACRO
R0254 0 PARAM_A_TXT_FAB = TPASK_LENGTH0 + 0, 0, 32, 0%,
R0255 0 ! addr of FAB for TERMTABLE.TXT
R0256 0 PARAM_A_TXT_RAB = TPASK_LENGTH0 + 4, 0, 32, 0%,
R0257 0 ! addr of RAB for TERMTABLE.TXT
R0258 0 PARAM_A_BINARY_FAB = TPASK_LENGTH0 + 8, 0, 32, 0%,
R0259 0 ! addr of FAB for TERMTABLE.EXE
R0260 0 PARAM_A_BINARY_RAB = TPASK_LENGTH0 +12, 0, 32, 0%,
R0261 0 ! addr of RAB for TERMTABLE.EXE

```
R0262 0      PARAM_A_CAP_PTRS      = TPASK_LENGTH0 +16, 0, 32, 0%,  
R0263 0          ! addr of buffer for cap offsets  
R0264 0      PARAM_A_CAP_DATA     = TPASK_LENGTH0 +20, 0, 32, 0%,  
R0265 0          ! addr of buffer for data  
R0266 0      PARAM_A_HEADER       = TPASK_LENGTH0 +24, 0, 32, 0%,  
R0267 0          ! addr of buffer with header info  
R0268 0      PARAM_L_TERM_INDEX_SIZE = TPASK_LENGTH0 +28, 0, 32, 0%,  
R0269 0          # bytes in term index  
R0270 0      PARAM_A_TERM_INDEX    = TPASK_LENGTH0 +32, 0, 32, 0%,  
R0271 0          address of temp. storage  
R0272 0          for terminal index  
R0273 0      PARAM_L_CUR_TERM_DEF   = TPASK_LENGTH0 +36, 0, 32, 0%,  
R0274 0          points to current term def  
R0275 0      PARAM_L_CUR_DATA_BYTE  = TPASK_LENGTH0 +40, 0, 32, 0%,  
R0276 0          next available data byte  
R0277 0      PARAM_L_CUR_CAP_NUMBER = TPASK_LENGTH0 +44, 0, 32, 0%,  
R0278 0          number of capability currently  
R0279 0          being parsed  
R0280 0      PARAM_L_SAVED_TOKENCNT  = TPASK_LENGTH0 +48, 0, 32, 0%,  
R0281 0          remember how many chars in  
R0282 0          current cap string  
R0283 0      PARAM_L_SAVED_TOKENSTR  = TPASK_LENGTH0 +52, 0, 32, 0%,  
R0284 0          pointer to start of current  
R0285 0          cap string  
R0286 0      PARAM_L_ORIG_TXT      = TPASK_LENGTH0 +56, 0, 32, 0%;  
R0287 0          address of buffer containing  
R0288 0          ! text string (pre-upcase)  
R0289 0      ! End of SMGTPACTL.REQ
```

SMGTPALIB - SMGS TPARSE require files

J 16

15-Sep-1984 23:28:41

VAX-11 Bliss-32 V4.0-742

[SMGRTL.SRC]SMGTPALIB.REQ;1

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(1)

: 0290 0

REQUIRE 'RTLIN:SMGTRMMAC';

! TPARSE macros

```
R0292 0 XTITLE 'SMGTRMMAC.REQ - Macros for TERMTABLE'  
R0293 0 Module: SMGTRMMAC.REQ Edit: PLL1001  
R0294 0 *****  
R0295 0 *  
R0296 0 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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R0314 0 *  
R0315 0 *  
R0316 0 *****  
R0317 0  
R0318 0  
R0319 0 ++  
R0320 0 | FACILITY: Screen Management  
R0321 0 | ABSTRACT:  
R0322 0 |  
R0323 0 | This require file contains macros used in the creation of TERMTABLE.EXE.  
R0324 0 |  
R0325 0 | MODIFIED BY:  
R0326 0 |  
R0327 0 | 1-001 - Original. PLL 30-JAN-1984  
R0328 0 |--  
R0329 0 |  
R0330 0 |+  
R0331 0 | Macro $INCR_CAP_STRING_SIZE  
R0332 0 |  
R0333 0 | Add the specified number of bytes to the capability string size.  
R0334 0 | We may be dealing with a negative size if extra processing is needed.  
R0335 0 |  
R0336 0 |  
R0337 0 |  
MRO338 0 MACRO $INCR_CAP_STRING_SIZE (NUMBER_BYTES, STRING_SIZE) =  
MRO339 0 BEGIN  
MRO340 0 | IF .STRING_SIZE LSS 0  
MRO341 0 | THEN STRING_SIZE = .STRING_SIZE - NUMBER_BYTES  
MRO342 0 | ELSE STRING_SIZE = .STRING_SIZE + NUMBER_BYTES;  
MRO343 0 |  
MRO344 0 | END;%:  
R0345 0 |  
R0346 0 |  
R0347 0 |  
R0348 0 | Macro $INCR_CUR_DATA_BYTE
```

```

R0349 0
R0350 0
R0351 0
R0352 0
R0353 0
R0354 0
R0355 0
MRO356 0
MRO357 0
MRO358 0
MRO359 0
MRO360 0
MRO361 0
MRO362 0
MRO363 0
MRO364 0
MRO365 0
MRO366 0
MRO367 0
R0368 0
R0369 0
R0370 0
R0371 0
R0372 0
R0373 0
R0374 0
MRO375 0
MRO376 0
MRO377 0
MRO378 0
MRO379 0
MRO380 0
MRO381 0
MRO382 0
MRO383 0
MRO384 0
MRO385 0
R0386 0
R0387 0
R0388 0
R0389 0
R0390 0
R0391 0
R0392 0
R0393 0
R0394 0
R0395 0
MRO396 0
MRO397 0
MRO398 0
MRO399 0
MR0400 0
MR0401 0
MR0402 0
MR0403 0
MR0404 0
R0405 0

| Update the currently available data byte by the number of bytes
| just written. If this is the first byte of the string, then we
| also wrote a byte count.
|-
MACRO $INCR_CUR_DATA_BYTE (NUMBER_BYTES, FIRST_FLAG) =
BEGIN
    AP [PARAM_L_CUR_DATA_BYTE] = .AP [PARAM_L_CUR_DATA_BYTE] +
    NUMBER_BYTES +
    (IF FIRST_FLAG
        THEN 2          ! 1 for size, 1 for kind
        ELSE 0);
    SMGSSDATA_OFFSET = .SMGSSDATA_OFFSET + NUMBER_BYTES +
    (IF FIRST_FLAG
        THEN 2
        ELSE 0);
END: %;

!+
! Macro to update the size of an arithmetic capability. This size
! will be negative.
MACRO $UPDATE_ARITH_STRING_SIZE (NUMBER_BYTES) =
BEGIN
    BND
    CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
    LOCAL
    CAP_SIZE : REF VECTOR [,BYTE,SIGNED];
    CAP_SIZE = .AP [PARAM_L_CUR_TERM_DEF] +
    .CAP_PTRS [.AP [PARAM_L_CUR_CAP_NUMBER]];
    CAP_SIZE [0] = .CAP_SIZE [0] - NUMBER_BYTES;
END: %;

!+
! We fill buffers with data and then do a block I/O write when we reach
! the end of a definition or when the buffer is full. Here we check to
! see if the buffer is full (ie. if there is room for the number of bytes
! we are about to put in it).
|-
MACRO $CHECK_BUFFER_OVERFLOW (BYTES_TO_WRITE) =
BEGIN
    LOCAL
    REMAINING_BYTES;
    REMAINING_BYTES = SMGSK_CAP_DATA_SIZE -
    (.AP [PARAM_L_CUR_DATA_BYTE] - .AP [PARAM_A_CAP_DATA]);
    IF BYTES_TO_WRITE GTR .REMAINING_BYTES
    THEN
        CALLG (.AP, SMG$WRITE_DATA);
END: %;

```

SMGTRMMAC.REQ - Macros for TERMTABLE

M 16

15-Sep-1984 23:28:41
15-Sep-1984 22:51:46

VAX-11 Bliss-32 V4.0-742
[SMGRTL.SRC]SMGTRMMAC.REQ;1

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(1)

: R0406 0
: R0407 0 ! End of file SMGTRMMAC.REQ

: 0408 0
: 0409 0 ! End of file SMGTPALIB.REQ

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	1	0	581	00:01.0

COMMAND QUALIFIERS

: BLISS/LIBRARY=LIBS:SMGTPALIB/LIST=LIS\$:SMGTPALIB/SOURCE=REQUIRE SRC\$:SMGTPALIB

: Run Time: 00:04.0
: Elapsed Time: 00:05.7
: Lines/CPU Min: 6135
: Lexemes/CPU-Min: 9780
: Memory Used: 32 pages
: Library Precompilation Complete

0361 AH-BT13A-SE
VAX/VMS V4.0

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SMGTPALIB
LIS

SMGSTATAB
LIS

SMGSTRTAB
LIS

0362 AH-BT13A-SE
VAX/VMS V4.0

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SMGUSR RM LIS	COM REQ	IFR	SORLIB REQ	CDDTYPE R32
SORTSHR MAP	DEFS0 REQ	DKS REQ	SRTSPC REQ	COOMAC R32
SORT32	CHKPNT REQ	SFKEYWRD REQ		RECSYM R32
SORTMERGE MAP	OPCODES REQ			
SMGVECTOR LIS	SRTTRN MAP			